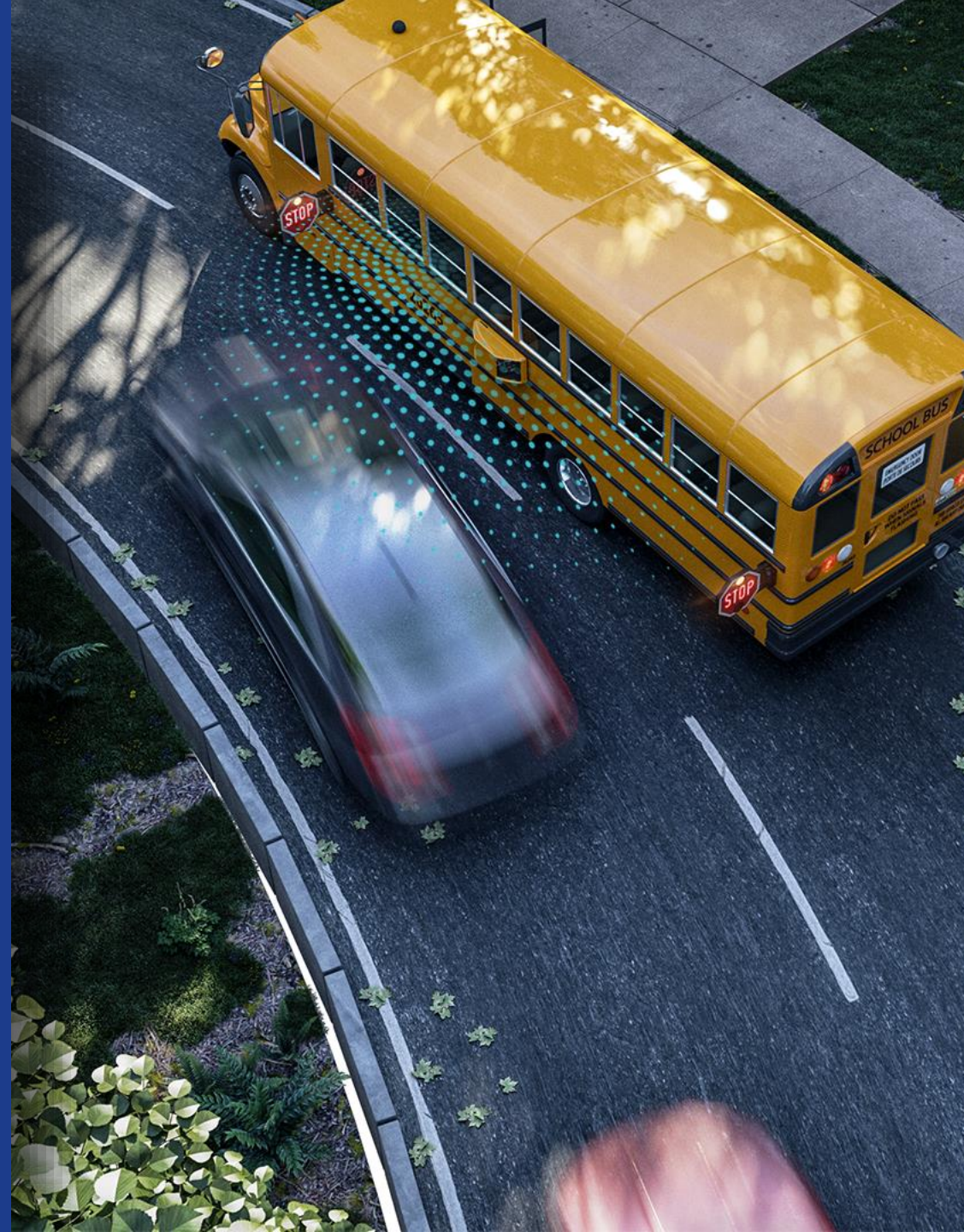
BUSPATROL

BusPatrol Safety Program



2014 The idea of BusPatrol was born

2015 1ST live equipment tests
- North Bay / Sudbury

2016 BP 1ST pilot program in Ontario
- Peel, Waterloo, Brantford, Sudbury, North Bay

2017 Began operations in Montgomery County, MD

2019 2ND generation cameras & AI processing

2020 Awarded 95% of all RFP bids
- 6K buses in Suffolk

2021 50K+ BusPatrol buses
- Including fleets in ON & QC

SCHOOL 1ST PROGRAM APPROACH

Built From Years of Understanding Stakeholder Needs

6 Years Building the most robust school bus safety program

8.6M Hours of live road testing

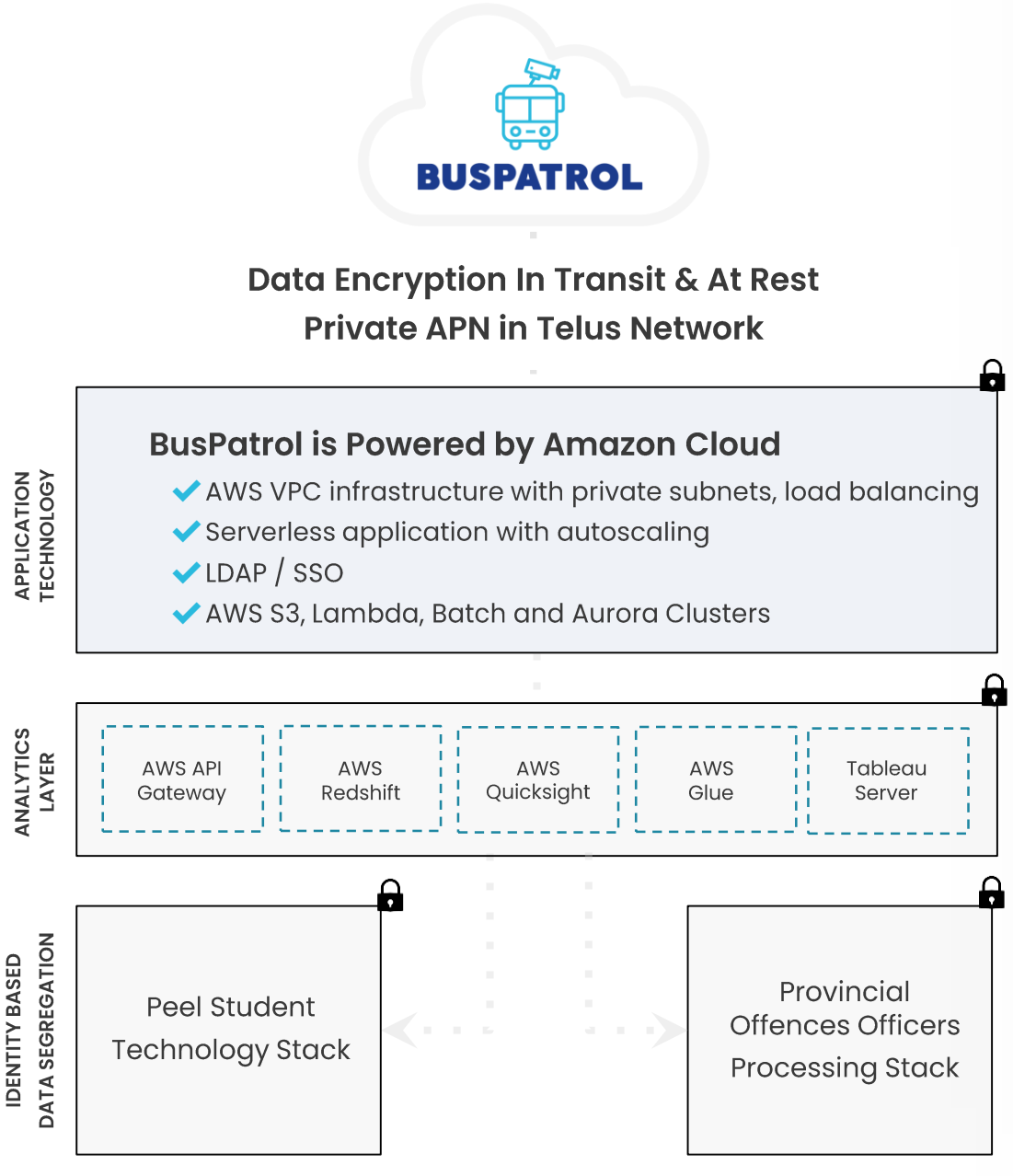
5x More effective stop-arm enforcement than competitors (AI Assisted)

Trusted by State & Provincial legislators in NY, PA, MI, MA, VA, MD, ON, QC to advise on regulation drafting

Our Architecture

Cloud Based, Secure & Scalable

BUSPATROL



AI-assisted technology

End-to-end encryption in transit and at rest

AWS Canada infrastructure with redundancy and disaster recovery

Accenture-verified cybersecurity

PCI & SOC 2 compliance

IAM based, physical segregation of data & video

Tableau reporting interface and AWS API gateways

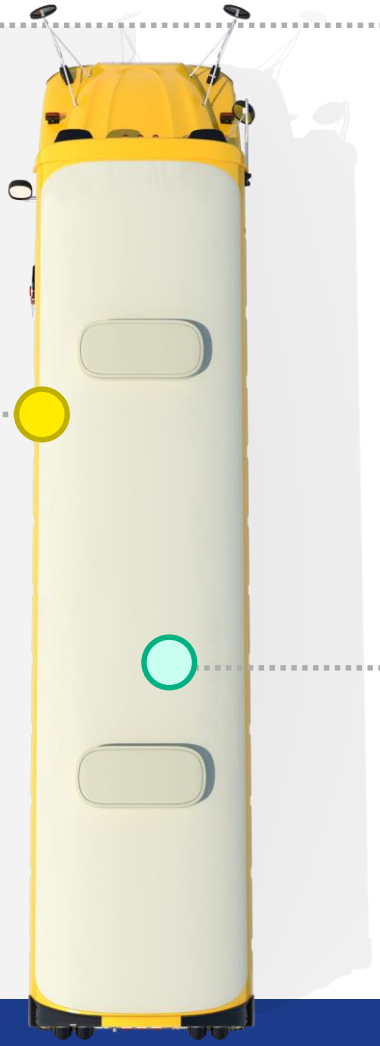
WORKING WITH
LAW ENFORCEMENT

SECURED AWS CLOUD
TECHNOLOGY WITH
DATA SEGREGATION

WORKING WITH
SCHOOL DISTRICTS

Citation Management Tools

Evidence Processing
Vehicle Page
Citation Issuing



Fleet Management & Routing

Parent Apps

BusPlanner
chipmunk School Bus Tracker
SAMSUNG
ZONAR

Ticket Review Technicians

Manage Data and Video

External Stop-Arm Cameras Only

School Districts

Access to Student Safety
Data & Application

Internal Cameras Only

Cloud-Connected Safety Cameras

Seamless Citation Management

Student Safety & Fleet Management

Peel Processing Center

BUSPATROL

Peel Processing Center

Regional Provincial Offenses Officers & Evidence Technicians

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Information Systems Administrative Field Services Staff

Program Management

STOPR
STUDENT TRANSPORTATION OF PEEL REGION

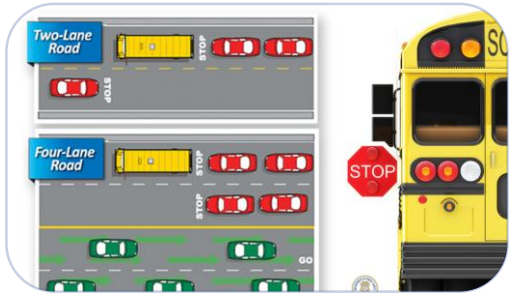
Consortia

PROGRAM LAUNCH SEPTEMBER 2021

Safety First - Business Model

- 80% of the violations & revenues from 20% of the buses
- **100% of students need to be safeguarded by safety tech**
- Accessibility to life-saving technology
- Our full-fleet deployment model drives school district opt-ins

SOFTWARE LICENSES
& Connectivity Charges



PSA & SIGNAGE
Awareness Campaigns

MAINTENANCE
Hardware & Software

CUSTOMER SUPPORT
Violator Education

ADJUDICATION SERVICES
Violator Support

Stop-Arm Technology Features

BUSPATROL

The stop-arm enforcement camera suite contains 3-5 high resolution cameras, optimized for performance in environments with variable weather and light conditions.

AI Assisted Technology

8 Lanes of Coverage

Variable Weather Conditions

Variable Light Conditions

4K & 180° Coverage

Anti Vibration Technology

HIGHEST STOP-ARM CAPTURING RATE

BusPatrol's evidence processing and citation management platform **used by Provincial Offenses Officers** in compliance with provincial guidelines and regulations.

BUS ROUTE

Stop-arm camera is activated, while bus is in operation

Overhead lights activated, bus stops & stop-arm deployed

Stop-arm violations are identified and recorded

Video, GPS and data are captured by BusPatrol AI

PROCESSING & REVIEW

BusPatrol AVA AI compiles video and evidence package

PEEL REGIONAL PROCESSING CENTRE

Provincial offence officers process stop-arm incidents

Provincial offence officers issue stop-arm citations

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LEARN HOW OUR ENFORCEMENT PROGRAM WORKS

ENFORCEMENT & EDUCATION

PEEL REGIONAL PROCESSING CENTRE

Ticket is mailed to offender with website containing link to access video evidence

Driver makes payment online or at designated municipal office

Citation revenue used to cover program expenses & invest in safety initiatives

Call Centre Available to Educate Drivers on Road Safety and Facilitate Citation Management and Collection

FULL-STOP ENFORCEMENT PROGRAM

MORE THAN TECHNOLOGY

Working With BusPatrol

Technology-Enabled Delivery

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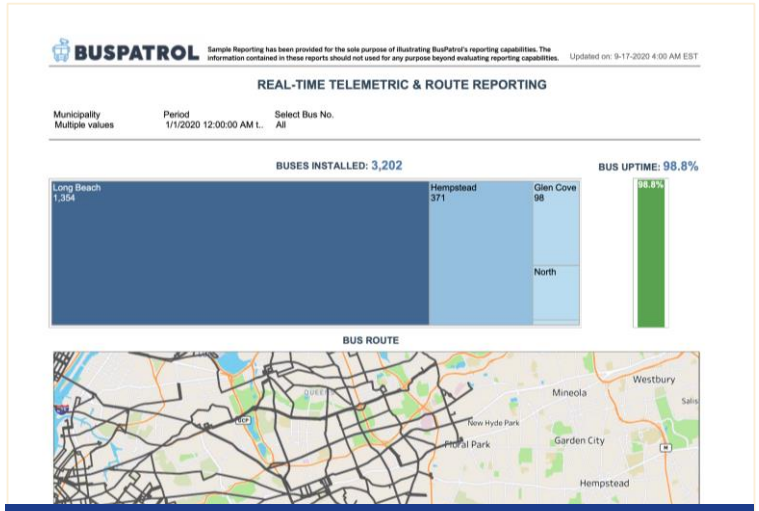
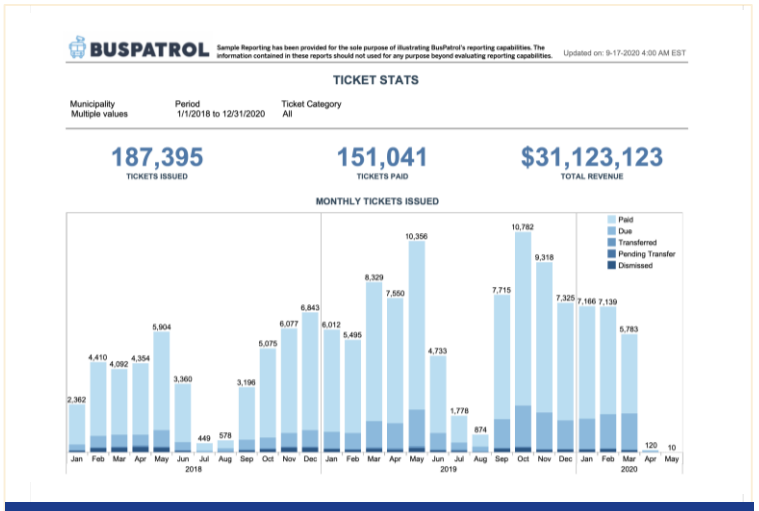
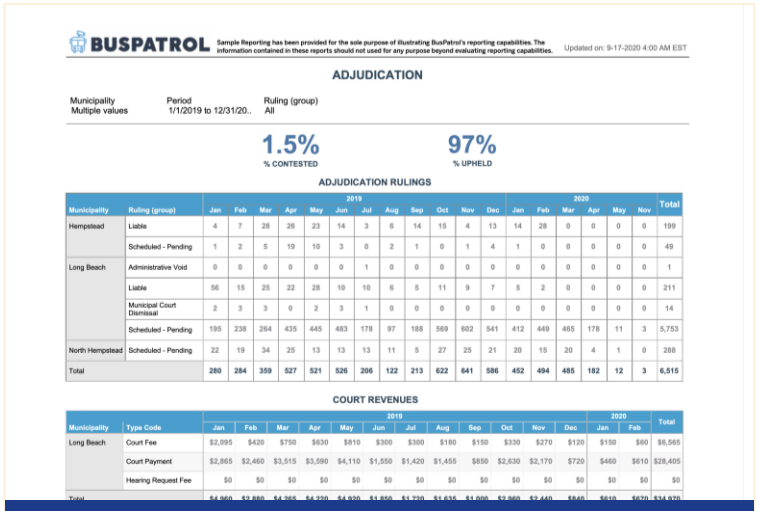


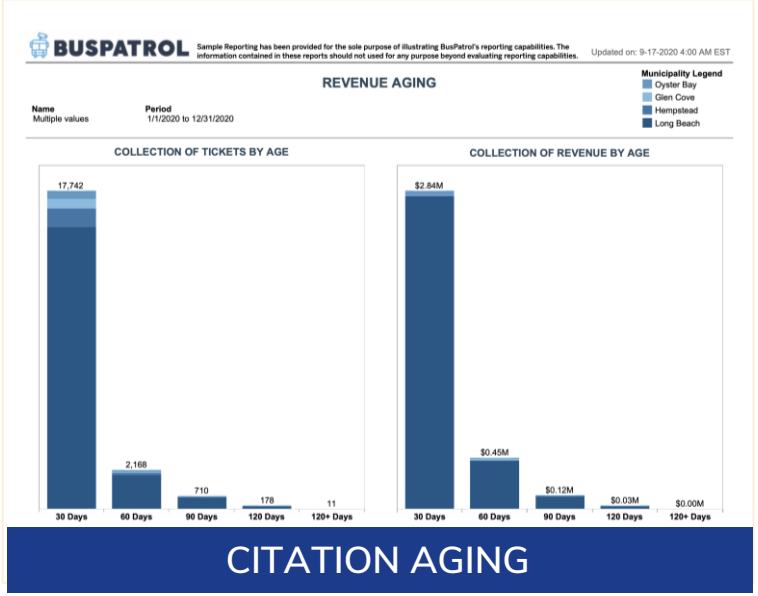
REAL-TIME ROUTE REPORTING



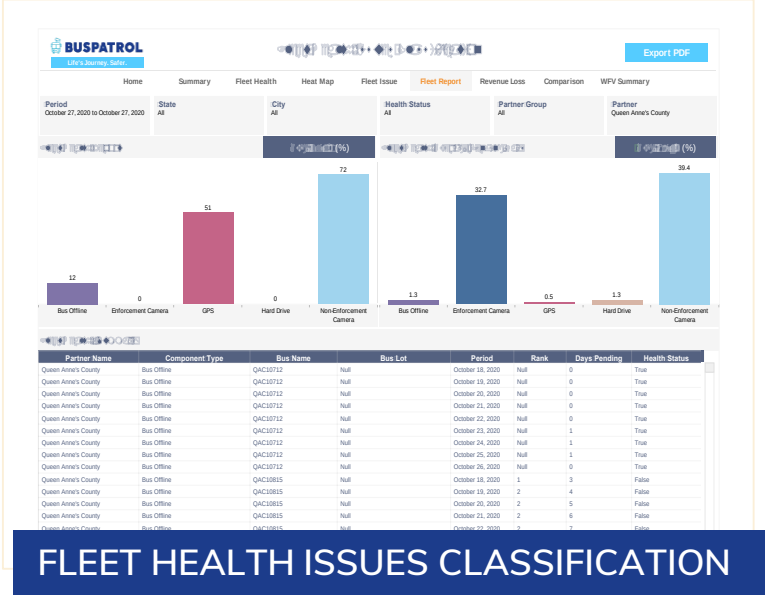
STOP-ARM VIOLATION STATS



ADJUDICATION



CITATION AGING



FLEET HEALTH ISSUES CLASSIFICATION

Modern cloud-based infrastructure delivering our underlying data model and analytics

98% OF THE VIOLATORS WHO GET A TICKET
VIA THE STOP-ARM CAMERA PROGRAM
DON'T ILLEGALLY PASS A
SCHOOL BUS A SECOND TIME.

ONCE THEY KNOW THE LAW IS BEING ENFORCED, THEY STOP.

Contact Us

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Merci!

Contact us:

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BUSPATROL.COM

FOLLOW OUR MISSION: